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TECHNICAL NOTE

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subject: Mining Equipment

Data: DSC has the following equipment handbooks or manuals, available on a short-term loan basis:

1. Terex (General Motors) (loose leaf, kept up to date periodically, most data as of March 1969 in our copy) contains performance data and specifications for:

Scrapers - 7 12, 14, 24, 32, 35, 36 (Coal) cubic yards.

Crawler Tractors - 225, 275, 290, 440 Flywheel horsepower.

Tractor Equipment - (Bulldozers, rippers, etc.).

Loaders - 2 to 9 cubic yard buckets.

Allied Equipment - Rippers, winches, trenchers, snow plows, water wagons, etc.

2. WABCO (Westinghouse Air Brake Company, Construction Equipment Division; includes former Le Tourneau line of tractors, dated August 1968). Contains performance data, specifications and in some cases selling prices and operating cost data for:

Tractor Scrapers with or without elevating scrapers - 9, 11, 21, 31, 34 and 36 cubic yards; with rear dump - 11 tons.

Dozer (Tourna tractor) - 218 horsepower.

Tractor Drawn Scrapers - 11.5, 20 cubic yards.

Motor Grinders - 130-256 horsepower.

Motor Grinder Attachments.

Haulpak Trucks

Rear Dump - 35, 50, 65, 70 tons.

Bottom Dump - 120 tons.

Coal Hauler - 120 tons.

Electric Rear Dump - 100 tons.

Electric Rear Dump - 120 tons.

Sheepsfoot Rollers.

Wire Rope.

This publication also contains a section on estimating procedures including:

Computer programs available - vehicle simulation, earthwork calculations, hourly ownership and operating costs.

Production and cost estimates.

Equipment ownership and operating costs.

Job Evaluations.

3. Fundamentals of Earthmoving, Caterpillar Tractor Company, revised April 1968. Contains excellent reference material on such things as:

Materials (weight, swelling, etc.).

Power required, available and usable.

Cycle time.

Production - Scraper pushing, bulldozing, compacting, grading power shovels (hourly production), draglines (hourly), track type loaders, wheel loaders.

Owning and operating costs.

Overhead costs.

Cost per yard.

Review problems.

Typical specifications -

270 horsepower truck type tractor.

30 cubic yard wheel tractor hauling unit.

35 ton off-highway truck.

115 horsepower motor grader.

4. Euclid

Specifications for

Rear dump trucks - 13, 22, 35, 50 or 105-ton
capacities

Bottom dump trucks - 63, 70, 100, 110-ton
capacities

Belt loader - 7,785 cubic yards per hour

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.

